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BALTIMORE PUBLIC SCHOOLS

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1922-1923

BALTIMORE PUBLIC SCHOOLS

Baltimore Polytechnic Institute

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CATALOGUE

1922-1923

THIRTY-EIGHTH ACADEMIC YEAR

Published by Authority of the
SCHOOL BOARD
CITY OF BALTIMORE
1922

Baltimore Polytechnic Institute

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REQUIREMENTS FOR ADMISSION

Pupils bearing properly attested certificates of having passed the prescribed eighth grade course of the Public School System of Baltimore are entitled to enrollment. Other applicants residing in the City will be admitted after passing an examination covering the requirements of the eighth grade. (Specimen Examination, Page 26.)

A student who is not a resident of Baltimore City may be admitted to the school by passing successfully an entrance examination and by registering at the office of the Secretary of the Board of School Commissioners, where he will be furnished with a bill for the first quarterly installment of the annual fee of $150. A presentation at the Institute of a coupon from the bill, signed by the City Comptroller, will be accepted as evidence of payment, and will entitle the applicant to enrollment.

The legal residence of a minor is the same as that of his parent or guardian.

Reports to Parents

Quarterly reports of a pupil's standing are made to the parents.

Courses of Study

The graduates of this school have for many years been admitted to advanced standing at all of the leading technical universities of the country. It has been found, however, that the large student body of today is not uniform in its ability to assimilate the advanced work of the single course of study offered by the present curriculum; and also that unity of purpose to become engineers which characterized the students of former years has disappeared.

Starting in September, 1922, this school will offer three courses of study, A, B, and C, as shown later in this catalogue.

Course A is designed for those who wish to enter the second year of a technical college or university. It is essentially the course which has for many years been given at this Institute, the chief difference being in the requirement of more English. Heretofore all pupils have been required to take this course; but in the future only those will be admitted to it who show that they have the ability to keep up with the advanced work which it offers. Inasmuch as the mathematics in Course A includes Algebra, Geometry (plane and solid), Trignometry, Analytic Geometry, and Differential and Integral Calculus, it will be necessary for pupils who enroll for this course from the elementary schools or Junior High Schools to do so at the beginning of the first year. If, however, a pupil desires to enter this course after he has completed the ninth grade in the Junior High School, he may be admitted by attending summer school and passing satisfactory examinations in the subects of the first year of Course A.

Course B is designed for those who expect to enter the Freshman class in a standard college.

Course C is designed for pupils who do not expect to go to college.

College Entrance Requirements

To enter college a pupil must have had at least fifteen units of preparatory work. "A unit represents a year's study of any subject in a secondary school, constituting approximately a quarter of a full year's work." It is understood that four or five recitations a week, forty to sixty minutes in length, will be given to each subject.

The college entrance requirements can usually be satisfied by three years of English, three years of mathematics, two years of foreign language, two years of history, two years of science, and enough shop work and drawing to make up fifteen units.

Changing Courses

Any pupil who finds that he has made a mistake in the choice of his course may, with the permission of the Principal, change to another course. Those pupils, however, who complete the first year's work of Course B or Course C and wish to change to Course A, must not only have the Principal's permission, but they must also attend summer school, and pass a satisfactory examination in the work of the first year of Course A.

The School Day

9:00	to 9:07½	—Opening exercises	7½	minutes
9:07½	to 9:57½	—First Period	50	minutes
9:57½	to 10:45	—Second Period......	47½	minutes
10:45	to 11:32½	—Third Period	47½	minutes
11:32½	to 12:20	—Fourth Period ...	47½	minutes
12:20	to 1:00	—Recess	40	minutes
1:00	to 1:45	—Fifth Period	45	minutes
1:45	to 2:30	—Sixth Period	45	minutes

DEPARTMENT OF ENGINEERING

In the Department of Engineering the course of instruction is divided into four parts, Drawing, Mechanics, Steam and Gas Engineering, and Surveying.

Drawing: Three years of mechanical drawing are given in all the courses. The instruction includes the use of instruments, isometric drawing, machine sketching, detail and assembly drawing. In addition to this, one-half year of descriptive geometry is taught in all the courses. In courses A and C is also given a half year of elementary machine design, involving the application of mechanics and the use of empirical formulae in the design of machine parts.

Mechanics: A half year of theoretical mechanics is given in all the courses. This includes the laws of equilibrium, of friction, and of motion, and of the principle of work. In courses A and C an additional half year is devoted to instruction in the mechanics of materials, involving the theory of beams, center of gravity, moment of inertia, and graphical statics.

Steam and Gas Engineering: The subject of steam and gas engineering is given in all the courses. This work consists of the elementary thermodynamics of the steam engine, engine and boiler efficiencies, and simple engine design. In gas engineering special attention is given to the principles of construction, of ignition, and of governing; and to the kinds of fuel used. This study of theory is supplemented by work in the engineering laboratory, where are made comprehensive tests illustrating the class-room work.

Surveying: One year of surveying is given in course C. The work consists of the solution of problems in the class-room, supplemented by the use of instruments in the field.

DEPARTMENT OF PRACTICE

No attempt is made to teach trades, but the equipment is of such nature that the instruction given in the shops necessarily results in the acquisition of a considerable degree of manual dexterity, though designed to be correlative to the work in the class-room. It is believed that instruction in correct methods of using tools and practical illustrations of how, and for what purpose, things are done, are of more value than mere excellence in hand skill.

The equipment in the machine, pattern, forge, sheet metal, and carpentry shops is equal to that of any similar institution in the country.

DEPARTMENT OF MATHEMATICS

In the Department of Mathematics each of the three courses comprises four years of instruction. Algebra, Plane and Solid Geometry, and Plane Trigonometry comprise the work of the first three and one-half years in courses B and C. The latter half of the fourth year in course B is devoted to a co-ordination and review of the subjects previously taught. In the latter half of the fourth year of course C, an elementary treatment of Analytic Geometry and Calculus is given, with special reference to the relation of these two subjects to practice.

In course A instruction is given in Algebra, Plane and Solid Geometry, Plane Trigonometry, Analytical Geometry and the Differential and Integral Calculus.

DEPARTMENT OF SCIENCE

Science work may be considered under three sub-divisions: Physics, Chemistry, and Electricity.

Physics is a standard course of high-school grade and is given in the second year in all the courses. The work is made as practical as possible, the engineering features receiving special emphasis. Two periods per week of laboratory work are required.

Chemistry, in all courses embraces one year of regular high-school work, and is given the time and treatment usually required in such a course, with special emphasis on steel, iron, copper, brass, blue printing, and other materials and reactions which have engineering value. In course A there is added a half-year of analytical chemistry, most of the time being spent in the laboratory.

Electricity, in courses B and C, is taught as a comprehensive one-year course. The action of currents and the application of electricity to industrial work receives much consideration; the treatment of fundamental theories and laws is as thorough as time will permit. The course includes the telephone, the telegraph, radio communication, electric lighting, automobile circuits, railways, and general power-house equipment. Individual laboratory work is required. In course A there is added a full year of applied electricity, in which special treatment is given to the generator, the motor, railways, alternating current machinery, poly-phase currents, and the transmission and distribution of power. The equipment for demonstration is well adapted to the courses, the power supply being of such varied nature that direct, single-phase and, polyphase currents, with a great range of voltage, are instantly available. Advanced laboratory work is required.

DEPARTMENT OF HISTORY AND CIVICS

The Department of History and Civics offers instruction in English History, Modern European History and American History. In each of these subjects a knowledge of modern institutions is emphasized and the origin of these institutions are traced into the past.

In addition to the purely historical subjects mentioned above, the Department affords an opportunity for the study of Civics and the elementary principles of Economics. It is intended, through these courses, to train the student to participate in government intelligently, to teach him some of the present industrial problems and to show him his responsibility as a citizen.

Throughout all of the courses it is the aim of the Department to develop the critical faculties of the students, to create what is known as historical mindedness, and to stimulate an interest in historical writings.

DEPARTMENT OF ENGLISH

In the Department of English the courses comprise the theory and practice of composition, and the reading of books by representative authors of England and America. In composition special attention is given in all the courses to the forms commonly used in business and professional life; and in courses A and B considerable attention is given to the composition of technical papers. In literature the aim is to meet the college entrance requirements; and, in addition, to have the pupils read as widely as is practicable books that are worth while.

DEPARTMENT OF MODERN LANGUAGES

The work in French in courses A and B is designed to give the pupil a thorough knowledge of the fundamental principles of grammar and pronunciation; and such instruction as will enable him to read French easily, and to successfully pursue advanced courses in the study of the language.

COURSE A

Advanced College Preparatory Course

FIRST YEAR

Term I.

	Periods
English 1A1	4
Algebra 1A1	4
Geometry 1A1	4
French 1A1	4
History 1A1	5
Mechanical Drawing 1A1	4
Shop Practice 1A1	4
	30

Term II.

	Periods
English 1A2	4
Algebra 1A2	4
Geometry 1A2	4
French 1A2	5
History 1A2	5
Mechanical Drawing 1A2	4
Shop Practice 1A2	4
	30

SECOND YEAR

Term I.

	Periods
English 2A1	4
Algebra 2A1	3
Geometry 2A1	3
French 2A1	3
History 2A1	4
Physics 2A1	5
Mechanical Drawing 2A1	4
Shop Practice 2A1	4
	30

Term II.

	Periods
English 2A2	4
Algebra 2A2	3
Geometry and Trigonometry 2A2	4
French 2A2	3
History 2A2	4
Physics 2A2	4
Mechanical Drawing 2A2	4
Shop Practice 2A2	4
	30

THIRD YEAR

Term I.

	Periods
English 3A1	5
Trigonometry 3A1	3
Analytic Geometry 3A1	4
French 3A1	3
Chemistry 3A1	4
Electricity 3A1	3
Mechanical Drawing 3A1	4
Shop Practice 3A1	4
	30

Term II.

	Periods
English 3A2	3
Steam Engineering 3A2	5
Analytic Geometry 3A2	4
French 3A2	3
Chemistry 3A2	4
Electricity 3A2	3
Mechanical Drawing 3A2	4
Shop Practice 3A2	4
	30

FOURTH YEAR

Term I.

	Periods
English 4A1	5
Calculus 4A1	5
Chemistry 4A1	4
Electricity 4A1	4
Steam Engineering 4A1	3
Mechanics 4A1	5
Study	4
	30

Term II.

	Periods
English 4A2	5
Calculus 4A2	5
Mechanical Laboratory 4A2	4
Electricity 4A2	4
Internal Combustion Engines 4A2	3
Mechanics of Materials 4A2	5
Drawing 4A2	4
	30

COURSE B

College Preparatory Course

FIRST YEAR

Term I.

	Periods
English 1B1	5
Algebra 1B1	5
French 1B1	5
Civics 1B1	5
Mechanical Drawing 1B1	4
Shop Practice 1B1	4
Study	2
	30

Term II.

	Periods
English 1B2	5
Algebra 1B2	5
French 1B2	5
Civics 1B2	5
Mechanical Drawing 1B2	4
Shop Practice 1B2	4
Study	2
	30

SECOND YEAR

Term I.

	Periods
English 2B1	5
Plane Geometry 2B1	5
French 2B1	5
Physics 2B1	5
Mechanical Drawing 2B1	4
Shop Practice 2B1	4
Study	2
	30

Term II.

	Periods
English 2B2	5
Plane Geometry 2B2	5
French 2B2	5
Physics 2B2	5
Mechanical Drawing 2B2	4
Shop Practice 2B2	4
Study	2
	30

THIRD YEAR

Term I.

	Periods
English 3B1	4
Algebra 3B1	5
French 3B1	3
Chemistry 3B1	5
Modern European History 3B1	4
Mechanical Drawing 3B1	4
Shop Practice 3B1	4
Study	1
	30

Term II.

	Periods
English 3B2	4
Trigonometry 3B2	5
French 3B2	3
Chemistry 3B2	5
Modern European History 3B2	4
Mechanical Drawing 3B2	4
Shop Practice 3B2	4
Study	1
	30

FOURTH YEAR

Term I.

	Periods
English 4B1	4
Solid Geometry 4B1	4
Electricity 4B1	5
American History 4B1	5
Elements of Steam Engineering 4B1	5
Drawing 4B1	4
Study	3
	30

Term II.

	Periods
English 4B2	4
Mathematics Review 4B2	4
Electricity 4B2	5
American History 4B2	5
Mechanics 4B2	5
Engineering Laboratory 4B2	4
Study	3
	30

COURSE C

For Those Students Who Do Not Expect to Go to College

FIRST YEAR

Term I.

	Periods
English 1C1	5
Algebra 1C1	5
Civics 1C1	5
Mechanical Drawing 1C1	4
Shop Practice 1C1	8
Study	3
	30

Term II.

	Periods
English 1C2	5
Algebra 1C2	5
Civics 1C2	5
Mechanical Drawing 1C2	4
Shop Practice 1C2	8
Study	3
	30

SECOND YEAR

Term I.

	Periods
English 2C1	5
Plane Geometry 2C1	5
Physics 2C1	5
Modern European History 2C1	5
Mechanical Drawing 2C1	4
Shop Practice 2C1	4
Study	2
	30

Term II.

	Periods
English 2C2	5
Plane Geometry 2C2	5
Physics 2C2	5
Modern European History 2C2	5
Mechanical Drawing 2C2	4
Shop Practice 2C2	4
Study	2
	30

THIRD YEAR

Term I.

	Periods
English 3C1	5
Algebra 3C1	5
Chemistry 3C1	5
Steam Engineering 3C1	5
Mechanical Drawing 3C1	4
Shop Practice 3C1	4
Study	2
	30

Term II.

	Periods
English 3C2	5
Trigonometry 3C2	5
Chemistry 3C2	5
Steam and Gas Engineering 3C2	5
Mechanical Drawing 3C2	4
Shop Practice 3C2	4
Study	2
	30

FOURTH YEAR

Term I.

	Periods
Industrial History 4C1	5
Solid Geometry 4C1	5
Electricity 4C1	5
Mechanics 4C1	5
Drawing 4C1	4
Engineering Laboratory 4C1	4
Surveying 4C1	2
	30

Term II.

	Periods
Economics 4C2	5
General Mathematics 4C2	5
Electricity 4C2	5
Mechanics of Materials 4C2	5
Drawing 4C2	4
Industrial Organization and Shop Practice 4C2	4
Surveying 4C2	2
	30

Time Devoted to the Different Subjects Comprising the Courses of Study

	Total Number of Periods		
	Course A	Course B	Course C
Department of Engineering			
Steam Engineering	144	90	126
Internal Combustion Engines	54	....	54
Mechanics	90	90	90
Mechanics of Materials	90	....	90
Engineering Laboratory	72	72	72
Surveying	....	....	72
Machine Design	72	....	72
Descriptive Geometry	72	72	72
Mechanical Drawing	360	432	432
Department of Practice			
Wood Shop Practice	72	72	144
Sheet Metal Practice	72	72	144
Elementary Patternmaking, Wood Turning	72	72	72
Forging	72	72	72
Wood Patternmaking	72	72	72
Machine and Vice Shop Practice, Pipe Fitting	72	72	72
Industrial Organization and Machine Shop Practice	....	....	72
Department of Mathematics			
Algebra	252	270	270
Geometry	198	252	270
Explanation	36	....	....
Analytic Geometry	144	....	....
Trigonometry	90	90	90
Review	....	72	....
Differential Calculus	90	....	....
Integral Calculus	90	....	....
General Mathematics	....	....	90

	Total Number of Periods		
	Course A	Course B	Course C
Department of Science			
Physics	90	108	108
Physics, Laboratory	72	72	72
Chemistry	126	108	108
Chemistry, Laboratory	90	72	72
Electricity	108	108	108
Electricity, Laboratory	72	72	72
Department of English			
Composition	306	324	324
Literature	306	324	252
Department of French			
French	396	468	....
Department of History and Civics			
Civics	....	180	180
English History	180	....	....
Modern European History	....	144	180
Economics	....	....	90
Industrial History	....	....	90
American History	144	180	....

SPECIMEN ENTRANCE EXAMINATION PAPERS

Set for Pupils Other Than Those Promoted From the Elementary Schools

Spelling and Penmanship

Writing from dictation a paragraph or two of some standard text—Irving's Rip Van Winkle or Bancroft's United States History.

GRAMMAR

I. Use each part of speech in a different sentence, indicating the part of speech used in each sentence by underscoring and naming it.

II. Define and give an example of a simple sentence, of a complex sentence, and of a compound sentence.

III. Parse the italicized words in the following sentence: "By not heeding the *counsels* of our elders, *how* often do we *lose* *what* we should gain!"

IV. Analyze the following sentence: "If we send the sailors a message in time, they will help us when the savages attack."

V. Write sentences illustrating the correct use of any perfect tense of each of the following verbs: sit, set, seat, lie, lay, write, go.

COMPOSITION

The subject set is a description of some well-known place or object or an account of some historical event.

AMERICAN HISTORY

1. What parts of the American continent were explored or settled in early Colonial times by each of the following named nations?

   (*a*) Spanish.
   (*b*) French.
   (*c*) English.
   (*d*) Dutch.
   (*d*) Swedes.

2. Mention two explorers who were prominent in the service of the Spanish; two who were prominent in the service of the French; two who were prominent in the service of the English.

3. Write a short account of the early history of the colony of Maryland.

4. Write a short account of the settlement of Virginia.

5. (*a*) What were indented servants?
   (*b*) For what was William Penn noted?
   (*c*) For what was Roger Williams noted?

6. (*a*) Tell the story of Braddock's defeat.
   (*b*) Tell the story of General Wolfe's capture of Quebec.
   (*c*) What terms of peace were made between the French and the English by the Treaty of Paris in 1763?

7. (*a*) Mention three causes of the American Revolution.
   (*b*) Mention two prominent British generals, and two prominent American generals who served in the Revolution.

(*c*) Give a brief account of the Battle of Long Island, explaining the object of each commander and the result of the battle.

8. (*a*) Tell the story of the Louisiana Purchase.

(*b*) Tell the story of the Lewis and Clark Expedition.

9. What were the causes of the Mexican War? Mention two leading American generals, and state briefly what each accomplished.

10. Tell briefly for what each of the following was noted:

(*a*) Thomas Jefferson.
(*b*) Henry Clay.
(*c*) Andrew Jackson.
(*d*) Daniel Webster.
(*e*) Abraham Lincoln.

ARITHMETIC

1. Divide 5.375 by 0.0125, obtaining the exact results.

2. Simplify $\frac{1+0.5}{1-0.5} \times \frac{0.05 \div 0.005}{0.005 \div 0.05} - \frac{0.04\frac{1}{2}}{0.22\ 2/9}$

3. A merchant's sales on Monday amounted to \$385.84. His sales on Monday were 16 2/3% of 54% less than the amount of goods sold on Tuesday. What was the amount of Tuesday's sales?

4. A firm sold an engine for \$7,050, thereby losing 6%; for what should it have been sold in order to gain 12%?

ALGEBRA

1. Factor the expressions: $a^2 + 6ax + 5x^2$, $n^{10} - 16n^5 - 80$, and $1 - 9x - 36x^2$.

2. Simplify

$$\left[(a^2 - x^2) \div \left(\frac{1}{x} + \frac{1}{a}\right)\right] \blacksquare \left[(a^2 - x^2) \div \left(\frac{1}{x} - \frac{1}{a}\right)\right]$$

3. Given $\frac{2x+1}{5} - \frac{3y+2}{7} = 2y - x$, $\frac{3x-1}{4} + \frac{7y+2}{6} = 2x - y$ find the value of x and y.

Rules for the Students of the Baltimore Polytechnic Institute.

The following rules were formulated by the Student Advisory Board, passed by the Student Council, and approved by the Principal:

1. A student may go to his locker during class hours with the written consent of his instructor. During the change of periods no student may open his locker.

2. The throwing of paper on the floor of the corridors will not be tolerated.

3. No running, unnecessary noise or whistling will be tolerated in the halls and no paper must be thrown on the school grounds.

4. Students will not be permitted to enter or leave the school by the entrance to the Central Building, except in case of fire drill.

5. All students going downstairs shall use the two end stairways. All students going upstairs shall use the Central stairway. This rule is void before 9 A. M., at 1 P. M., and after school.

6. No student will be allowed to linger on the upper floors at 12.20 except by special permission.

7. No smoking will be allowed in any part of the buildings or on the grounds.

8. No student will be permitted to deface school property in any manner whatsoever.

9. Students must conduct themselves at all times in such a manner as not to bring discredit upon the school.

10. Any student having a complaint to make concerning school affairs shall write the complaint clearly, furnishing any necessary data, and drop the complaint in the Advisory Board box in the East Wing, first floor. Complaints must be signed by the person making them.

ELIGIBILITY RULES

On March 12, 1914, the Principals of the City College and the Polytechnic Institute, the two male secondary public schools of Baltimore, agreed upon a code of rules which shall govern the eligibility of students of the two institutions to participate in athletics and in other competitions.

The Code

1. Only those students who maintain a grade of scholarship satisfactory to the Principal shall be permitted to represent the school in any competition.

2. No student who has reached his twenty-first birthday shall represent his school in any competition.

3. No student under the penalty of discipline shall represent his school in any competition.

4. All post-graduates are ineligible for competitions, and no under-graduate shall be eligible for a longer period than four years from the date of his original entry, unless his graduation has been prevented one year by absence on account of sickness.

5. Only those students who are taking full work in a regular course (a minimum of 15 periods per week) shall be eligible to represent their school in any competition.

6. Only those students who are in good standing as amateurs shall represent their school.

7. The Principal of each school shall be held to have ultimate responsibility for the representatives of his school in all matters concerning inter-school contests.

8. All games shall be played on Fridays, Saturdays, or on week-day holidays.

9. All schedules and arrangements for competitions shall be made by members of the teaching staffs of the two institutions, and all officials shall be selected at least two days before a contest.

10. A member of the teaching staff shall manage the finances.

11. A student who does not attain a standard of attendance satisfactory to his Principal may not participate in any contest.

12. A student who enters school later than October 8th must have attended two months before becoming eligible to participate in any contests of competition.

13. Each Principal shall supply the other within three days of the date of any competition a list of the regulars and substitutes whom it is proposed to use.

14. In all cases of students entering from other secondary schools their records in such schools shall determine their eligibility in accordance with these rules.

15. February entrants, unless they come from other high schools or by promotion from the elementary schools, are ineligible to contest until the following September.

THIS CARD TO BE DETACHED AND RETURNED TO PRINCIPAL

AMILY NAME GIVEN NAME AND INITIAL

BALTIMORE POLYTECHNIC INSTITUTE

ARENT'S SIGNATURE

DDRESS TELEPHONE

ROM SCHOOL NO. .... AGE .... YR. MO.

EMARKS : ....

DATE

Course	ALLOWED BY PRINCIPAL	
	DESIRED BY PUPIL	
	PRESENT [OF PUPIL]	
Section	PRESENT	
	ALLOWED	

ADVISER

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